

## SYSTEMS AND METHODS FOR ELECTROSURGICAL DISSECTION AND HARVESTING OF TISSUE

### ABSTRACT OF THE DISCLOSURE

The present invention provides systems, apparatus and methods for  
5 selectively applying electrical energy to body tissue in order to incise, dissect, harvest or  
transect tissues or an organ of a patient. The electrosurgical systems and methods are  
useful, *inter alia*, for accessing, dissecting, and transecting a graft blood vessel , such as  
the internal mammary arteries (IMA) or the saphenous vein, for use in a by-pass  
procedure. A method of the present invention comprises positioning an electrosurgical  
10 probe adjacent the target tissue so that one or more active electrode(s) are brought into at  
least partial contact or close proximity with a target site in the presence of an electrically  
conductive fluid. A high frequency voltage is then applied between the active electrode and  
one or more return electrode(s). During application of the high frequency voltage, the  
electrosurgical probe may be translated, reciprocated, or otherwise manipulated such that  
15 the active electrode is moved with respect to the tissue. The present invention  
volumetrically removes the tissue at the point of incision, dissection, or transection in a  
cool ablation process that minimizes thermal damage to surrounding, non-target tissue.